

Title (en)

METHOD AND DEVICE FOR ADJUSTING THE POSITION OF A MAGNET RELATIVE TO A GMR SENSOR

Title (de)

VERFAHREN UND VORRICHTUNG ZUR JUSTIERUNG EINER POSITION EINES MAGNETEN ZU EINEM GMR-SENSOR

Title (fr)

PROCÉDÉ ET DISPOSITIF D'AJUSTEMENT DE LA POSITION D'UN AIMANT PAR RAPPORT À UN CAPTEUR GMR

Publication

EP 3645980 B1 20230809 (DE)

Application

EP 18733790 A 20180607

Priority

- DE 102017114511 A 20170629
- DE 2018100545 W 20180607

Abstract (en)

[origin: WO2019001629A1] The invention relates to a method for adjusting the position of a magnet relative to a GMR sensor, by means of which the position of the rotor is inferred by an analysis unit (21) from a variable magnetic field that is generated by the magnet (18) secured to a rotor (17) of a drive unit (14). In a method with which a highly precise signal output of the GMR sensor (20) is possible, an optimal working region of the GMR sensor is derived from a direction and/or rotation of a magnetic sum vector of the magnetic field defined by the magnet in that a magnetic field strength is measured on a plane defined by the sum vector using a second magnetic field sensor.

IPC 8 full level

G01D 5/244 (2006.01); **G01D 18/00** (2006.01)

CPC (source: EP KR)

G01D 5/14 (2013.01 - KR); **G01D 5/24433** (2013.01 - EP); **G01D 18/00** (2013.01 - EP KR); **G01R 33/02** (2013.01 - KR)

Citation (examination)

- JP 2016138815 A 20160804 - MITSUBISHI HEAVY IND MACHINE TOOL CO LTD
- JP 2012114997 A 20120614 - NIDEC SANKYO CORP

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2019001629 A1 20190103; CN 110678716 A 20200110; CN 110678716 B 20220408; DE 102017114511 A1 20190103; DE 112018003297 A5 20200319; EP 3645980 A1 20200506; EP 3645980 B1 20230809; KR 102656404 B1 20240412; KR 20200019631 A 20200224

DOCDB simple family (application)

DE 2018100545 W 20180607; CN 201880036091 A 20180607; DE 102017114511 A 20170629; DE 112018003297 T 20180607; EP 18733790 A 20180607; KR 20197037940 A 20180607